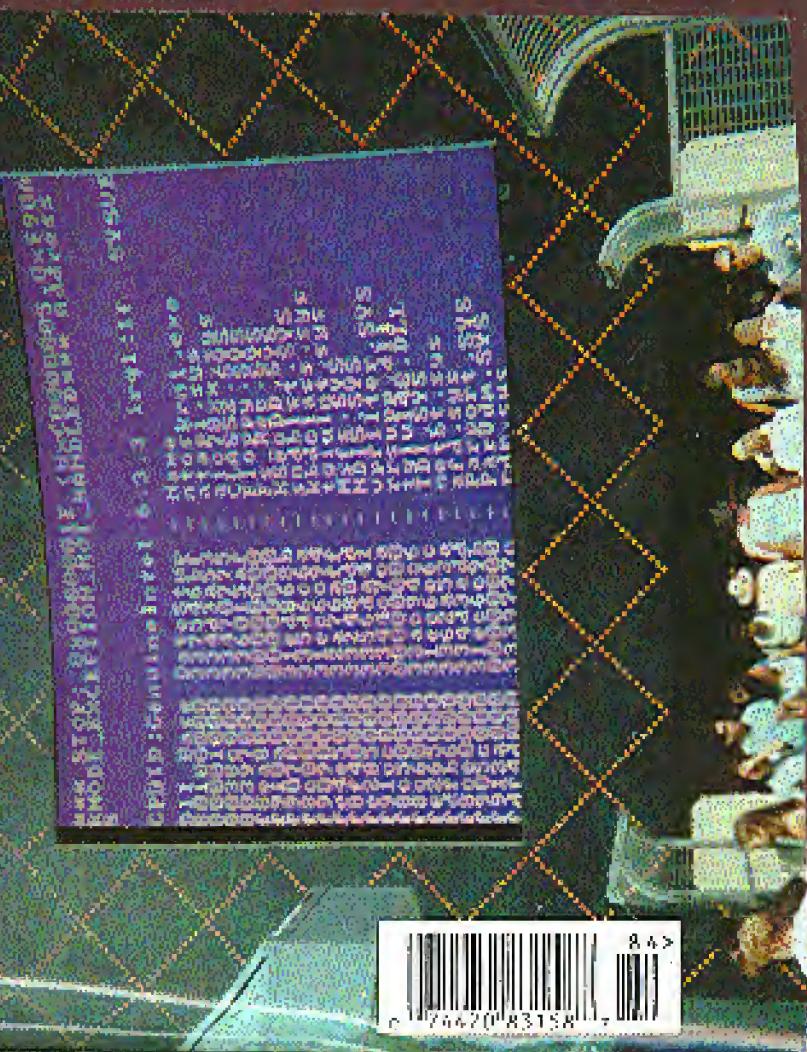
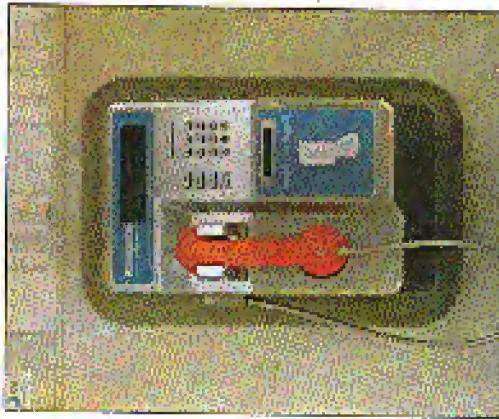




**FREE KEVIN**

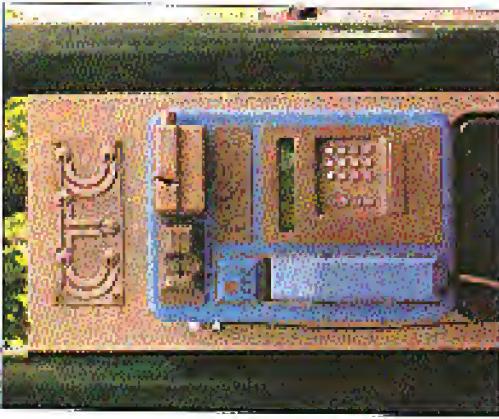


## Historic Foreign Payphones



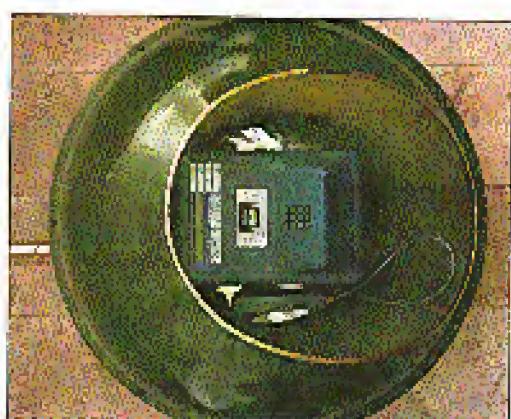
This phone was seen in Phnom Penh, Cambodia and is rumored to have been used by Pol Pot himself. (An anonymous photo call.)

Photo by Celia Johnson



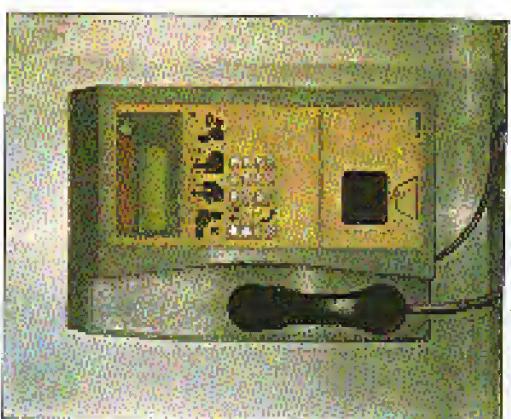
Found in Valparaiso, this Chilean phone could have been used by dictator Pinochet to call the CIA collect for instructions.

Photo by Vladimir Sanchez



From Izmir, Turkey - the ancient city of Smyrna. Supposedly used by Suleim I in the heyday of the Ottoman Empire. (not verified)

Photo by Tom Kelt



Colombo, Sri Lanka. Said to be the very phone where Arthur C. Clarke calls the Defense voice bridge from.

Photo by Celia Johnson

Come and visit our website and see our vast array of payphone photos that we've compiled! <http://www.2600.com>

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"We will not engage in any assaults or hostile physical contact, physical intimidation, verbal threats of physical harm or violence, or any other actions that are threatening or hostile in nature.

We will not carry weapons onto company property in company vehicles, or while conducting company business, even if we have a permit or license to carry them." - Page 17 of the Bell Atlantic Code of Business Conduct.

## STAFF

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# 2600

Winter 1998-1999

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but could possibly threaten the hacker world more than government trials, secretive protocols, Orwellian surveillance, and mass hysteria? The answer will no doubt come as a shock to many, I suspect.

—Success or threat? What kind of strategy is this? Success is what everyone dreams about, it's the goal. After all,

"Well, yes and no. There's a difference between our success and perceived success. One is a lot easier to come by than the other. And this is a greater more likely to be obscured."

True, but that's not much of our curiosity and makes this but a good deal of marketing. To other words, hackers are more in great demand. This is a rather own determination. Despite initial dis business and warnings from people who really never knew what they were talking about, "reformed" hackers are being used in greater numbers by companies interested in research and development to

## THE VIBOR SPOILED

The people eyes of governments? What if the Gophersparks were exhibited away to Microsoft to work on a high-paying project that took all of their skills and all of their time? Who would make money? Microsoft or the Microsoft?

The people eyes of governments? What if

hacker organizations like the UML, MSA, or the Chaos Computer Club used

out of existence because its members

had been hacking corporate positions

if it were revealed that they were part of a

gang of hackers? Who would show the

public that Microsoft really was?

The result would be obvious, and very sad. We

would lose a perspective that we value quite highly at a

critical turning point in the world's history. And Microsoft would lose touch with something unique that

they would be unlikely to find again.

The simple truth tells us that money isn't every-

thing. To feel that looked at objectively. It's very il-

logical, Microsoft says, to expect that we can

make money by spoiling away what success

becomes a commodity. In the hacker world, this is

absolutely tragic as we have so much to gain from each

other for an almost indefinite period.

And for those who reflect the corporate culture at-

gather, you have a real opportunity to change your cul-

ture to places and for the who need them, the most

likely to do it entirely your way. Anyons suggesting

that we take a look at Microsoft is nothing but

more than your past.

Only enough, she can actually have a compa-

ny between this dilemma and Microsoft. We're

young, you can give virtually anything you want if you

play the game, and all you have to do is throw away

the first place, it can be almost impossible to resist, es-

specially if you feel you're forced something. And Microsoft

who have to use Microsoft or Microsoft and Microsoft

and Microsoft and Microsoft and Microsoft and Microsoft

# Tough memory button

By Kingpin  
Kingpin@Light.com

**H**ave you ever wondered what those small ear-like devices attached to a person's key-chain or ID badge are for? Not well, you will.

Dallas Semiconductor's iButton Tough Memory review: are cropping up all over the world. Used as a replacement for smart cards, bar-

codes, magnetic stripes, and RF tags, these

devices contain a combination of non-volatile RAM, EEPROM, real-time clock, temperature, cryopgraphy, and Java features that are used for applications ranging from debt re-

covery to medicine tracking. These de-

vices are specified to have 10 year data

retention and are housed in a

tagged stainless steel can.

Sun Microsystems recently

gave away iButtons Java Kings

to attendees of the Java One

conference in California. The

ring has 32KB of ROM, 6KB

of non-volatile SRAM, a real-

time clock, "multi-accessing"

for RSA encryption, and a Java

Virtual Machine. Upon check-

in at the conference, one car-

ried data into the ring -

personal information and pre-

ferred coffee type. Similar to a

college ID, one used the iBut-



button with a microprocessor. The internal circuitry of the iButton levels itself to

allow for identification and data throughout the conference. Walk up to the coffee machine, insert your ring, communicate via an encrypted channel, and receive your favorite coffee. One can program their own Java applets into the ring to exchange and store "business card" information or other data. Trivial, yes, but think of what may come. The possibilities are endless.

There are many types of iButtons, allowing for a practically unlimited range of use, but they all have the same underlying technology and all two buttons will have the same number. This may lead to Big Brother-type thoughts in your head because of its complete traceability, but there are actually many instances where the unique ID is necessary.

The 1-byte CRC (cyclic redundancy check) is just that. A checksum. This can and will be used by the host system to verify proper data transfer.

Currently, this 64-bit number is not a secret. It is printed directly onto the stainless steel case of the iButton. Although it's very helpful for testing and debugging, this may lead to a security problem if identification is based solely on the ID and someone finds a way to "clone" the iButton. Of course, someone could just seal it. As with any security implementation, you want to try and raise the bar to prevent the "winkie bakers" from unauthorized access.

Along with the unique ID, each iButton can contain NVRAM, EEPROM, real-time memory, and a serial port. The iButton

can be used by the host system to verify proper data transfer.



can contain NVRAM, EEPROM, real-time memory, and a serial port. The iButton

Part Number	Description	Memory
DS1920	Temperature iButton	16 bits EEPROM
DS1952	Crypto iButton	Secure coprocessor with 64 Kbytes RAM and 25 Kbytes ROM
DS1953	Memory iButton	4096 Bits NV RAM
DS1971	EEPROM iButton	256+54 Bits EEPROM
DS1932	Alt-Only iButton	1024 Bits EEPROM
DS1986	Alt-Only iButton	16,384 Bits EEPROM
DS1986	Alt-Only iButton	65,536 Bits EEPROM
DS1990A	Serial Number iButton	Not Applicable
DS1991	Multifreq iButton	1344 Bits NV RAM
DS1992	Memory iButton	1024 Bits NV RAM
DS1993	Memory iButton	4295 Bits NV RAM
DS1994	Memory iButton + Timer	4396 Bits NV RAM
DS1995	Memory iButton	15,584 Bits NV RAM
DS1995	Memory iButton	55,595 Bits NV RAM

Table 1 - iButton Product Selection Guide

clock, or a temperature sensor. See table 1 for a listing of iButton types (previously listed) from help.ibutton.com/selections.htm#Buttons.

You would, of course, choose the iButton that most closely fits your needs. The prices are all relatively cheap and may run between \$1.00 and \$1.00 if purchased in quantity.

The United States Postal Service has recently decided to use the EDS900A, Serial Number-only iButton as a replacement for the barcode technology that was used for many years. The iButton can withstand being out in an open environment, unlike a barcode that

will rapidly wear. There is an iButton mounted on the inside of every blue mailbox across the country, which is used to easily identify the mailbox and track the movements of the mail. It

might also be a way to keep tabs on the postal workers to make sure they retrieve the mail from each of the locations. The D819306 iButton consists of the 64-bit unique ID, and doesn't support any type of memory. The postal workers carry a pocket, pen-sized reader, which records that time and identification of each mailbox along the route.

#### Tektronix: Tektronix Sample iButton

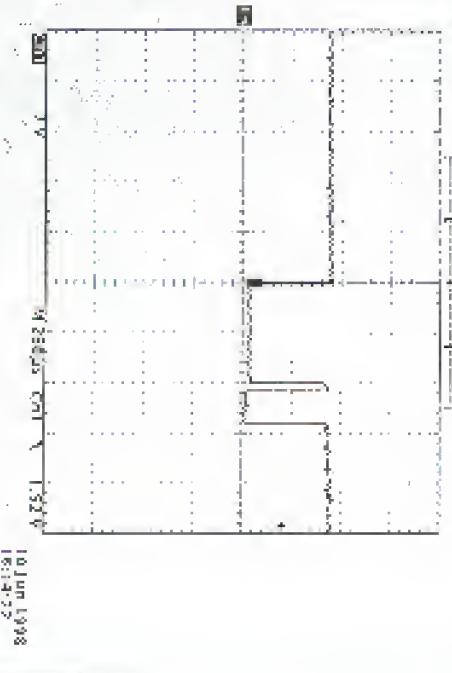


Figure 1 - Touch Memory Reset Pulse and returned Presence Pulse

#### Operations

There are three basic software routines that are used to communicate with the iButton. There is example code available (see table 3) in assembly language for the Intel 8051 and in C for a PC with a standard UART. Communication with the iButton are half-duplex (either transmitting or receiving, not both at the same time) and extremely timing sensitive. If the system is interrupted during communication, it will fail. For my particular application, I simply disabled global interrupts while the iButton was in action. In some cases, this isn't possible to do, and you'll have to write your code to keep re-setting and re-attempting the communication until it finishes undisturbed.

#### \* TouchReset(void)

This procedure transmits the "Reset signal" (480uS low pulse) to the Touch Memory and等待 for a presence pulse (low pulse) returned from the iButton (see figure 1). When the iButton is inserted into its socket, it is powered by the 1-Wire interface. It immediately sends out a "presence

pulse," which says, "I'm here" to the host. This initial presence pulse can be tied to an address-low interface line of the processor. Once the presence pulse is detected, the TouchReset() function is called to reset the iButton and confirm that the button is still there and ready for communications. This is similar to depressing a mechanical switch.

#### \* TouchByte(unsigned char &uch)

This procedure sends a byte, *uch*, to the Touch Memory and simultaneously returns one byte from the Touch Memory to the calling routine. Specific one-byte, iButton-specific commands are transmitted serially bit by bit to the Touch Memory (Read ROM, Write to Memory, etc. - see tables 1 and 3). This is the most important piece of the puzzle. Sending and receiving specific commands using this routine will allow complete control of the Touch Memory.

**1-Wire Networking Protocol**  
The Dallas Semiconductor 1-Wire Networking interfacing protocol consists of an OSI layer architecture, similar to TCP/IP or IPX. The 1-Wire Interface supports having multiple iButton devices on the bus at any given time. It is necessary to look at this protocol since it defines all of the communication standards of the Dallas iButton. The following information was taken from the Dallas Semiconductor Data Book of

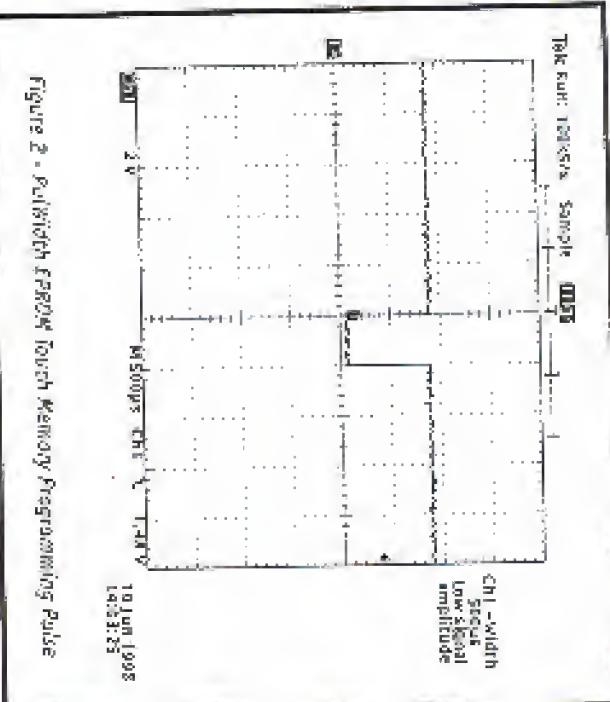


Figure 2 - Pulwidth Caching Touch Memory Programming Pulse

Memory. Using a single port pin to both send and receive data fits exactly with the 1-Wire protocol port pin hardware philosophy. Configuring the port pin as either an input or output will affect how the data is interpreted by the iButton. The state of the port pin is visited many times during a data transfer.

#### \* PulWidth (void)

This procedure, unused in most applications depending on the family of iButton, generates a 0.5ms low pulse (see figure 2). This routine is used to generate a programming pulse for the EEPROM (see *clock-programming* file, not accessible) Touch Memory devices.

**1-Wire Networking Protocol**  
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# THE FACTS OF SSN

by Kermit the Frog

The social security number (SSN) is a number used by the government to tell us apart from each other, as well as a method of giving us a guarantee of financial funds.

Many companies now use your SSN as an identification number, and to check with the government to confirm that you are who you say you are.

On to the good stuff: the number 078-05-1720. The SSN card has a sample number back during ad campaigns, and you can use it too. I'll be using it as an example, but this used to be a popular method of SSN forgery.

The IRS and any government official will recognize it, but most people have probably never heard of it.

We'll start with the first three digits: 078. These three digits, the state combo, represents (you guessed it) the state in which the SSN was applied for. 078, if you check on the list below, is within the realm of New York. On to the next digits.

The second set of digits is 05, the group combo. This is just a way for the government to keep track of the SSNs issued effectively. It can also give an estimate of how old in the year the card holder was born.

There is a strict order in which this combo progresses. It begins with odd numbers, 01 to 09, followed by even numbers, 10 to 18. This is usually as far as it goes, and I would never pick a number much more than 50 for the cohort.

Be wary though. Try to make your group combo coincide with the birthday that you are using.

A grade would be that 01 to 09 will be assigned, along with 10 to 16 within the first 3 months of the year, usually 18 to 36 is a good estimate for the next three, and 36 to 50 is an average for the third three months. 50 to 51 is a reasonable estimate for any remaining cards.

But if the last three months are above 50, why don't you recommend those, you may ask. I don't recommend using them because

you have no guarantee that the date you are choosing shall that many people apply in the year you have chosen. Some years it has gone into the next section, even numbers, 02 to 08, but some years it has only gotten to about 45. I would strongly recommend either trying to get that year's SSN application amount to difficult task, I am saying just staying low and using an early fake birthdate.

In preparation for the future, the SSA (Social Security Agency) has created the third and fourth groups, the third being mentioned above (even numbers, 02 to 08) and the fourth, odd numbers, 11 to 19.

The last four numbers in the SSN are 1720. This is just a random sequence. Some believe that they are assigned in order, starting from 1001 and going up. I have not seen, however, any proof of this.

Now that you have an idea of the underlying structure of an SSN, here are the states and their coinciding numbers. The first list is by state, the second is by number.

## U.S. STATES

Alabama	416-424
Alaska	574
Arizona	526-527, 600-601
Arkansas	429-432
California	545-573, 602-626
Colorado	521-524
Connecticut	040-049
Delaware	221-222
District of Columbia	577-579
Florida	161-267, 580-593
Georgia	252-260
Hawaii	575-576
Idaho	518-519
Illinois	318-361
Indiana	301-317
Iowa	407-485
Kansas	309-515
Kentucky	408-417
Louisiana	413-439
Maine	404-007
Massachusetts	003-009
Rhode Island	010-014
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Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	004-007
INVALID	INVALID
Massachusetts	003-009
Rhode Island	010-014
Connecticut	035-039
New Hampshire	001-003
Maine	

## A GUIDE TO MSSIONARIES

BY E. J. H. TURNER

When the subject of hacking comes to mind, many people think of UNIX shell accounts and the possibilities within. UNIX has always retained a reputation of flexibility and a good starting system for countless new hackers. But a shell account with UNIX is not always the easiest place to start. In my opinion, VMS, in terms of hacking, has been neglected. VMS has the

foreign domain: DARKHACK  
user name (DARKHACK) ok. Password, please.  
Password:  
USER DARKHACK logged into SERVER: DARKHACK at 5:1 15-Aug-98 1:58:46-EST, job 2822128.  
  
This is the user DARKHACK's main directory. JARREK83's disk is 500K. Note: When entering your directory or someone else's, it is entered as a non-interactive login. When a user logs in, they are prompted with the last time they made an interactive (Direct logon) or a remote (Network logon) (accessing a directory via PING, for example). The start since the directory was entered will show up as a max-interactive logon.

Today's firewalls are more secure than NTFS, but it remains to be seen just how many administrators don't really understand NTFS enough to bring it to its full security potential. In a NTFS document, there are many methods of impersonating a user which can give users a wide set of opportunities. Therefore, many ways of pushing these sources can be employed. There's a simple way of phishing the user. The bigger the fence, the more valuable the building within it. Pretend that the building's occupants are the server's files. Now what if the fence wasn't put in place? Opportunities for spying and tracking the network have been set up, hence the concept of NTFS phishing.

This is the listing of DARKHACK's main directory, with the file PASSWORD as the root directory. ELITE is the group DARKJACK belongs to, the group ELITE is also the file's owner. From here, DARKHACK can delete files, and view specific files.

If you want to read a full explanation of OpenVMS, *The Legion Of Death*, technical journal on the subject, is an excellent resource. It is owned from, in this article. Like many aspects of hacking, simple techniques will be employed to reveal greater results. When reading this guide and using what you've learned from it, there are a couple of essential things to keep in mind. Make sure the administrators are at least relatively lax. Don't try to match wits with admins obsessed with security because you will get caught. OpenVMS keeps many system logs with everything that occurs in the network (selected). You

49340. LAY/MKNS, MHC GENEALOGY

WISCONSIN, LUDWIG  
LAST REPORTS,  
1855-1865.

This is the listing of **DAWNGENT**'s main directory, with the file **MOSTWANTED.DAT**. The text in brackets indicates the same as the text from **DAWNGENT**'s listing above. From here, any user can view the file **MOSTWANTED.DAT**, delete it, or download it to their directory.

NOV 20, 1942. LIAISON BUREAU, NEW YORK, N.Y.  
ATTENTION  
A man going by the name "PACIFIC" has infiltrated hundreds of VANSKS recently  
the country. Be there, he may be residing, with a special file of station passes  
years. Your mission is to trace him down and bring him to justice! Good luck!

This can't be good for DARKLACK. I hopefully, if COVAGENT hasn't checked his dossier yet, DARKLACK can just remove his file and COVAGENT will never hear about it. COVAGENT would never be the last and one of the most obscure easy-interrogative login though.

or when the operator is at church (yes, you can be informed of that as well). Once you've learned how to use the network with RJE, you'll find other facilities (DASD, direct MultNet access, direct MultNet access) are a snap. It's a remarkable feature that MultNet is so process. If you don't happen to have an account, there is a list of devices with their passwords at the end of this guide. If the correct security measures aren't taken, users can view other user's logins. As well as viewing, a user with normal privileges can delete, add, and transfer files to their account. However, a user can usually only access the accounts on their disk. You can find the disk file by by typing "directory" or "dir" at the DCL prompt, and the disk is usually labeled something like "EDISK1". To view all the devices in the network, type "view devices" at the prompt. The list will look something like this:

EDISK1	EDISK2	EDISK3	EDISK4	EDISK5	EDISK6	EDISK7	EDISK8	EDISK9	EDISK10	EDISK11	EDISK12	EDISK13	EDISK14	EDISK15	EDISK16	EDISK17	EDISK18	EDISK19	EDISK20	EDISK21	EDISK22	EDISK23	EDISK24	EDISK25	EDISK26	EDISK27	EDISK28	EDISK29	EDISK30	EDISK31	EDISK32	EDISK33	EDISK34	EDISK35	EDISK36	EDISK37	EDISK38	EDISK39	EDISK40	EDISK41	EDISK42	EDISK43	EDISK44	EDISK45	EDISK46	EDISK47	EDISK48	EDISK49	EDISK50	EDISK51	EDISK52	EDISK53	EDISK54	EDISK55	EDISK56	EDISK57	EDISK58	EDISK59	EDISK60	EDISK61	EDISK62	EDISK63	EDISK64	EDISK65	EDISK66	EDISK67	EDISK68	EDISK69	EDISK70	EDISK71	EDISK72	EDISK73	EDISK74	EDISK75	EDISK76	EDISK77	EDISK78	EDISK79	EDISK80	EDISK81	EDISK82	EDISK83	EDISK84	EDISK85	EDISK86	EDISK87	EDISK88	EDISK89	EDISK90	EDISK91	EDISK92	EDISK93	EDISK94	EDISK95	EDISK96	EDISK97	EDISK98	EDISK99	EDISK100	EDISK101	EDISK102	EDISK103	EDISK104	EDISK105	EDISK106	EDISK107	EDISK108	EDISK109	EDISK110	EDISK111	EDISK112	EDISK113	EDISK114	EDISK115	EDISK116	EDISK117	EDISK118	EDISK119	EDISK120	EDISK121	EDISK122	EDISK123	EDISK124	EDISK125	EDISK126	EDISK127	EDISK128	EDISK129	EDISK130	EDISK131	EDISK132	EDISK133	EDISK134	EDISK135	EDISK136	EDISK137	EDISK138	EDISK139	EDISK140	EDISK141	EDISK142	EDISK143	EDISK144	EDISK145	EDISK146	EDISK147	EDISK148	EDISK149	EDISK150	EDISK151	EDISK152	EDISK153	EDISK154	EDISK155	EDISK156	EDISK157	EDISK158	EDISK159	EDISK160	EDISK161	EDISK162	EDISK163	EDISK164	EDISK165	EDISK166	EDISK167	EDISK168	EDISK169	EDISK170	EDISK171	EDISK172	EDISK173	EDISK174	EDISK175	EDISK176	EDISK177	EDISK178	EDISK179	EDISK180	EDISK181	EDISK182	EDISK183	EDISK184	EDISK185	EDISK186	EDISK187	EDISK188	EDISK189	EDISK190	EDISK191	EDISK192	EDISK193	EDISK194	EDISK195	EDISK196	EDISK197	EDISK198	EDISK199	EDISK200	EDISK201	EDISK202	EDISK203	EDISK204	EDISK205	EDISK206	EDISK207	EDISK208	EDISK209	EDISK210	EDISK211	EDISK212	EDISK213	EDISK214	EDISK215	EDISK216	EDISK217	EDISK218	EDISK219	EDISK220	EDISK221	EDISK222	EDISK223	EDISK224	EDISK225	EDISK226	EDISK227	EDISK228	EDISK229	EDISK230	EDISK231	EDISK232	EDISK233	EDISK234	EDISK235	EDISK236	EDISK237	EDISK238	EDISK239	EDISK240	EDISK241	EDISK242	EDISK243	EDISK244	EDISK245	EDISK246	EDISK247	EDISK248	EDISK249	EDISK250	EDISK251	EDISK252	EDISK253	EDISK254	EDISK255	EDISK256	EDISK257	EDISK258	EDISK259	EDISK260	EDISK261	EDISK262	EDISK263	EDISK264	EDISK265	EDISK266	EDISK267	EDISK268	EDISK269	EDISK270	EDISK271	EDISK272	EDISK273	EDISK274	EDISK275	EDISK276	EDISK277	EDISK278	EDISK279	EDISK280	EDISK281	EDISK282	EDISK283	EDISK284	EDISK285	EDISK286	EDISK287	EDISK288	EDISK289	EDISK290	EDISK291	EDISK292	EDISK293	EDISK294	EDISK295	EDISK296	EDISK297	EDISK298	EDISK299	EDISK300	EDISK301	EDISK302	EDISK303	EDISK304	EDISK305	EDISK306	EDISK307	EDISK308	EDISK309	EDISK310	EDISK311	EDISK312	EDISK313	EDISK314	EDISK315	EDISK316	EDISK317	EDISK318	EDISK319	EDISK320	EDISK321	EDISK322	EDISK323	EDISK324	EDISK325	EDISK326	EDISK327	EDISK328	EDISK329	EDISK330	EDISK331	EDISK332	EDISK333	EDISK334	EDISK335	EDISK336	EDISK337	EDISK338	EDISK339	EDISK340	EDISK341	EDISK342	EDISK343	EDISK344	EDISK345	EDISK346	EDISK347	EDISK348	EDISK349	EDISK350	EDISK351	EDISK352	EDISK353	EDISK354	EDISK355	EDISK356	EDISK357	EDISK358	EDISK359	EDISK360	EDISK361	EDISK362	EDISK363	EDISK364	EDISK365	EDISK366	EDISK367	EDISK368	EDISK369	EDISK370	EDISK371	EDISK372	EDISK373	EDISK374	EDISK375	EDISK376	EDISK377	EDISK378	EDISK379	EDISK380	EDISK381	EDISK382	EDISK383	EDISK384	EDISK385	EDISK386	EDISK387	EDISK388	EDISK389	EDISK390	EDISK391	EDISK392	EDISK393	EDISK394	EDISK395	EDISK396	EDISK397	EDISK398	EDISK399	EDISK400	EDISK401	EDISK402	EDISK403	EDISK404	EDISK405	EDISK406	EDISK407	EDISK408	EDISK409	EDISK410	EDISK411	EDISK412	EDISK413	EDISK414	EDISK415	EDISK416	EDISK417	EDISK418	EDISK419	EDISK420	EDISK421	EDISK422	EDISK423	EDISK424	EDISK425	EDISK426	EDISK427	EDISK428	EDISK429	EDISK430	EDISK431	EDISK432	EDISK433	EDISK434	EDISK435	EDISK436	EDISK437	EDISK438	EDISK439	EDISK440	EDISK441	EDISK442	EDISK443	EDISK444	EDISK445	EDISK446	EDISK447	EDISK448	EDISK449	EDISK450	EDISK451	EDISK452	EDISK453	EDISK454	EDISK455	EDISK456	EDISK457	EDISK458	EDISK459	EDISK460	EDISK461	EDISK462	EDISK463	EDISK464	EDISK465	EDISK466	EDISK467	EDISK468	EDISK469	EDISK470	EDISK471	EDISK472	EDISK473	EDISK474	EDISK475	EDISK476	EDISK477	EDISK478	EDISK479	EDISK480	EDISK481	EDISK482	EDISK483	EDISK484	EDISK485	EDISK486	EDISK487	EDISK488	EDISK489	EDISK490	EDISK491	EDISK492	EDISK493	EDISK494	EDISK495	EDISK496	EDISK497	EDISK498	EDISK499	EDISK500	EDISK501	EDISK502	EDISK503	EDISK504	EDISK505	EDISK506	EDISK507	EDISK508	EDISK509	EDISK510	EDISK511	EDISK512	EDISK513	EDISK514	EDISK515	EDISK516	EDISK517	EDISK518	EDISK519	EDISK520	EDISK521	EDISK522	EDISK523	EDISK524	EDISK525	EDISK526	EDISK527	EDISK528	EDISK529	EDISK530	EDISK531	EDISK532	EDISK533	EDISK534	EDISK535	EDISK536	EDISK537	EDISK538	EDISK539	EDISK540	EDISK541	EDISK542	EDISK543	EDISK544	EDISK545	EDISK546	EDISK547	EDISK548	EDISK549	EDISK550	EDISK551	EDISK552	EDISK553	EDISK554	EDISK555	EDISK556	EDISK557	EDISK558	EDISK559	EDISK560	EDISK561	EDISK562	EDISK563	EDISK564	EDISK565	EDISK566	EDISK567	EDISK568	EDISK569	EDISK570	EDISK571	EDISK572	EDISK573	EDISK574	EDISK575	EDISK576	EDISK577	EDISK578	EDISK579	EDISK580	EDISK581	EDISK582	EDISK583	EDISK584	EDISK585	EDISK586	EDISK587	EDISK588	EDISK589	EDISK590	EDISK591	EDISK592	EDISK593	EDISK594	EDISK595	EDISK596	EDISK597	EDISK598	EDISK599	EDISK600	EDISK601	EDISK602	EDISK603	EDISK604	EDISK605	EDISK606	EDISK607	EDISK608	EDISK609	EDISK610	EDISK611	EDISK612	EDISK613	EDISK614	EDISK615	EDISK616	EDISK617	EDISK618	EDISK619	EDISK620	EDISK621	EDISK622	EDISK623	EDISK624	EDISK625	EDISK626	EDISK627	EDISK628	EDISK629	EDISK630	EDISK631	EDISK632	EDISK633	EDISK634	EDISK635	EDISK636	EDISK637	EDISK638	EDISK639	EDISK640	EDISK641	EDISK642	EDISK643	EDISK644	EDISK645	EDISK646	EDISK647	EDISK648	EDISK649	EDISK650	EDISK651	EDISK652	EDISK653	EDISK654	EDISK655	EDISK656	EDISK657	EDISK658	EDISK659	EDISK660	EDISK661	EDISK662	EDISK663	EDISK664	EDISK665	EDISK666	EDISK667	EDISK668	EDISK669	EDISK670	EDISK671	EDISK672	EDISK673	EDISK674	EDISK675	EDISK676	EDISK677	EDISK678	EDISK679	EDISK680	EDISK681	EDISK682	EDISK683	EDISK684	EDISK685	EDISK686	EDISK687	EDISK688	EDISK689	EDISK690	EDISK691	EDISK692	EDISK693	EDISK694	EDISK695	EDISK696	EDISK697	EDISK698	EDISK699	EDISK700	EDISK701	EDISK702	EDISK703	EDISK704	EDISK705	EDISK706	EDISK707	EDISK708	EDISK709	EDISK710	EDISK711	EDISK712	EDISK713	EDISK714	EDISK715	EDISK716	EDISK717	EDISK718	EDISK719	EDISK720	EDISK721	EDISK722	EDISK723	EDISK724	EDISK725	EDISK726	EDISK727	EDISK728	EDISK729	EDISK730	EDISK731	EDISK732	EDISK733	EDISK734	EDISK735	EDISK736	EDISK737	EDISK738	EDISK739	EDISK740	EDISK741	EDISK742	EDISK743	EDISK744	EDISK745	EDISK746	EDISK747	EDISK748	EDISK749	EDISK750	EDISK751	EDISK752	EDISK753	EDISK754	EDISK755	EDISK756	EDISK757	EDISK758	EDISK759	EDISK760	EDISK761	EDISK762	EDISK763	EDISK764	EDISK765	EDISK766	EDISK767	EDISK768	EDISK769	EDISK770	EDISK771	EDISK772	EDISK773	EDISK774	EDISK775	EDISK776	EDISK777	EDISK778	EDISK779	EDISK780	EDISK781	EDISK782	EDISK783	EDISK784	EDISK785	EDISK786	EDISK787	EDISK788	EDISK789	EDISK790	EDISK791	EDISK792	EDISK793	EDISK794	EDISK795	EDISK796	EDISK797	EDISK798	EDISK799	EDISK800	EDISK801	EDISK802	EDISK803	EDISK804	EDISK805	EDISK806	EDISK807	EDISK808	EDISK809	EDISK810	EDISK811	EDISK812	EDISK813	EDISK814	EDISK815	EDISK816	EDISK817	EDISK818	EDISK819	EDISK820	EDISK821	EDISK822	EDISK823	EDISK824	EDISK825	EDISK826	EDISK827	EDISK828	EDISK829	EDISK830	EDISK831	EDISK832	EDISK833	EDISK834	EDISK835	EDISK836	EDISK837	EDISK838	EDISK839	EDISK840	EDISK841	EDISK842	EDISK843	EDISK844	EDISK845	EDISK846	EDISK847	EDISK848	EDISK849	EDISK850	EDISK851	EDISK852	EDISK853	EDISK854	EDISK855	EDISK856	EDISK857	EDISK858	EDISK859	EDISK860	EDISK861	EDISK862	EDISK863	EDISK864	EDISK865	EDISK866	EDISK867	EDISK868	EDISK869	EDISK870	EDISK871	EDISK872	EDISK873	EDISK874	EDISK875	EDISK876	EDISK877	EDISK878	EDISK879	EDISK880	EDISK881	EDISK882	EDISK883	EDISK884	EDISK885	EDISK886	EDISK887	EDISK888	EDISK889	EDISK890	EDISK891	EDISK892	EDISK893	EDISK894	EDISK895	EDISK896	EDISK897	EDISK898	EDISK899	EDISK900	EDISK901	EDISK902	EDISK903	EDISK904	EDISK905	EDISK906	EDISK907	EDISK908	EDISK909	EDISK910	EDISK911	EDISK912	EDISK913	EDISK914	EDISK915	EDISK916	EDISK917	EDISK918	EDISK919	EDISK920	EDISK921	EDISK922	EDISK923	EDISK924	EDISK925	EDISK926	EDISK927	EDISK928	EDISK929	EDISK930	EDISK931	EDISK932	EDISK933	EDISK934	EDISK935	EDISK936	EDISK937	EDISK938	EDISK939	EDISK940	EDISK941	EDISK942	EDISK943	EDISK944	EDISK945	EDISK946	EDISK947	EDISK948	EDISK949	EDISK950	EDISK951	EDISK952	EDISK953	EDISK954	EDISK955	EDISK956	EDISK957	EDISK958	EDISK959	EDISK960	EDISK961	EDISK962	EDISK963	EDISK964	EDISK965	EDISK966	EDISK967	EDISK968	EDISK969	EDISK970	EDISK971	EDISK972	EDISK973	EDISK974	EDISK975	EDISK976	EDISK977	EDISK978	EDISK979	EDISK980	EDISK981	EDISK982	EDISK983	EDISK984	EDISK985	EDISK986	EDISK987	EDISK988	EDISK989	EDISK990	EDISK991	EDISK992	EDISK993	EDISK994	EDISK995	EDISK996	EDISK997	EDISK998	EDISK999	EDISK1000
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WWW.BEST-LISTENING.COM Multithreaded user process v4.8.11152

Connection status: Connecting (8-bit connections)  
Starting: 2023-09-07 10:19:54.582 Server Process 34 8/153 24 524 1624 2388 5:53:59.651

Transfer completed. 34 (3) bytes transferred.

If any user with normal privileges wants to try and access the server's root directory (probably without success), simply type `ls -la` below. Notice the six entries. Those stand for the root directory, and can be found in, for example, the slot "SDISK1 (000000)". However, when the entries stand alone in a string, this stands for the server's root directory, not the root directory of any disk.

WESLEY, LEYDEN, CANTER - 388800...

If all goes well, a listing of the directory should appear. Security measures can be taken to stop this action though. If these measures have been taken, the listing below will replace the directory listing. The listing below is also used anytime the user tries to violate their privileges or delete into protected files.

These commands will create a directory with the name specified. (This is for ease; these commands will only be used once, owned by you, or will only let you create a directory with a different name.)

```
190101, 061555-DIRECTORY TEST  
2514 412503-[00000000000000000000000000000000] Directory created  
190101, 061555-DIRECTORY TEST  
2514 412504-[00000000000000000000000000000000] Directory created  
2514 412505-[00000000000000000000000000000000] Directory created
```

The following commands will delete a directory from the service. Depending on the service, you may only be able to delete a directory you have created.

240535:DISCRETE.GOVERNMENT: directory deleted  
04 0001: REMOVE-DIRECTORY CLASSIFIED  
240535:DISCRETE.GOVERNMENT: directory deleted

The last section in this service tells you how to back into someone's directory with `scatd`. It is very risky, but if the user you're passing with is ignorant enough, you should be able to pull this off. First, you need to be on during a busy night and wait until someone uses `netstat`. Then, even though a user won't be at ready (that's once they have the potential user), wait until they enter a telnet session or something else.

Doesn't it make sense to keep people from getting lost in a complex system? If you can't have a match, you can enter their directory and read or download files. Make sure not to delete or upload anything, or create any new directories. The logic behind this technique is the similarity between the interactive and non-interactive login: date and times. If two times and 10 copies of someone's interactive/non-interactive logins are too far apart, the user will be suspicious. But if these cases and times are close enough, since people will just assume the non-interactive login was invoked by some routine command they typed in right away. Subtlety, but it can work extremely well.

VALVYNE'S DEFAULT PASSWORD LIST!  
(Taken from "The Wi-Fi Zone Hacking Guide To Hacking And Pen-testing")

LOGONNAME:	Passwdonly
SYSTEM	OPERATOR, MANAGER
OPERATOR	OPERATOR
SYSTEM	TEST, SYSTEM, TEST
SYSTEM	SYSTEM, TEST, SERVICE
FIELD	FIELD, SERVICE
GUEST	GUEST, unpassworded
DEMO	DEMO, unpassworded
TEST	TEST
DECBET	DECBET

# Samba

Lion King or Software Suite?

This article on Sarcina is meant to teach the everybody besides more on the SMB protocol and how it relates to the SmbSecurity suite. (PwC, not just a chance!) I also hope that this article educates you about the basic elements of the

Samhällets  
Högtidsfest.

Samba is a suite of programs designed to allow clients to access file and print sharing via the SMB (Server Message Block) protocol. SMB, like almost all protocols, is based on the client/server model. Originally designed to run on the standard UNIX platform, Samba now is compatible with Novell, OS/2, and even VMS (does anyone still really use VMS?). As you can see, this allows Windows and UNIX integration at the file level, which is a consistent theme among many system administrators. This is

For example, the **Netgear** **SG308** **8-Port Gigabit Ethernet Switch** is capable of routing traffic between the **Samba** share and the **Windows** **7** **client**. **File sharing** is **enabled** by **right-clicking** on the **Share** **name** and selecting **Properties**. **Sharing** and **Security** **tab** **options** are **available** for **each** **share**.

Summary: Samba is a good fit for 2-12-16-32-64 bit  
Windows, multiple OSes, such as Linux, UNIX,  
Mac OS X, etc. All in all, Samba has been a blessing  
for many sysadmins.

Conclusion  
All is said, I hope this article explains a few things to you and I hope you may have learned something from it. I know that many hackers out there are fairly uninterested in proper use of the SMB protocol, and some don't even know what it does. This article was written in order to inform the many uneducated hackers about a protocol that can be extremely useful to the educated hacker. Have fun, and happy hacking.

The SNC orbited "Cecrops Interred" but entirely at high-observability orbits.

Ms. Astron. Volume 7, Number 9, explains some aspects of Shek's law. I may not have reached "open", but they are mainly from a security standpoint. The source may be available at [bigastro.astrosoft.ru/sosnara/](http://bigastro.astrosoft.ru/sosnara/).

As a side note, the issue also includes full source and is a very useful little bundle of software to learn more about the SNC process!



When you're in a phone cable that houses 25 pairs of wire or more (sometimes 250 pairs), how do you figure out which wire belongs in the outer and which is ring and tip? And why would you want to know this? Well, if you wanted to set up your own junction box in your duck yard (for whatever purpose that may serve), and it is not my fault if what you do isn't legal, or if you wanted to tap a line or mingle with the telco staff to pass as one of them, it might be worthwhile to learn a little of this. Now as for the first question, it is quite easy if you examine two sets of five colors to memory. The wires have a main (or a base) color and a stripe (or a secondary). When the main color on the wire is in Column 1, it rings. When the main color on the wire is in Column 2, that wire is tip.

Figure 1

Column 1 ..... Column 2  
 Blue (BL) ..... White (W)  
 Orange (O) ..... Red (R)  
 Green (G) ..... Black (BK)  
 Brown (BR) ..... Yellow (Y)  
 Slate (S) ..... Violet (V)

"This is all great, but how do I find a pair of wire harnesses: 100 others in the first place?" Well, if you have a wire where its main color is orange and the stripe is black, you would find the wire that has the main color black and the stripe color orange. You now have your ring and tip, respectively. With this system you could have 25 pairs. Now what happens if you get into a cable that has 200 wires making 100 pairs? If you cut off about a foot of the outer covering you would see that a type of facing or colored twine separates the pairs of wire into four sections of 25 pairs of wire (when dealing with phone lines of 100 pairs of

wire). And why would you want to know this? Well, if you wanted to set up your own junction box in your duck yard (for whatever purpose that may serve), and it is not my fault if what you do isn't legal, or if you wanted to tap a line or mingle with the telco staff to pass as one of them, it might be worthwhile to learn a little of this. Now as for the first question, it is quite easy if you examine two sets of five colors to memory. The wires have a main (or a base) color and a stripe (or a secondary). When the main color on the wire is in Column 1, it rings. When the main color on the wire is in Column 2, that wire is tip.

Figure 2

Pair	Main-Stripe
Tip 1	White-Blue
Ring 1	Blue-White
Tip 2	White-Orange
Ring 2	Orange-White
Tip 3	White-Green
Ring 3	Green-White
Tip 4	White-Brown
Ring 4	Brown-White
Tip 5	White-Slate
Ring 5	Slate-White
Tip 6	Red-Blue
Ring 6	Blue-Red
Tip 7	Red-Orange
Ring 7	Orange-Red
Tip 8	Red-Green
Ring 8	Green-Red
Tip 9	Red-Slate
Ring 9	Slate-Red
Tip 10	Red-Slate
Ring 10	Slate-Red

Figure 2

Figure 2 lists 25 pairs of wires. Each pair is identified by a number (Tip 1 through Tip 25) and a color combination. The color combinations are: White-Blue, Blue-White, White-Orange, Orange-White, White-Green, Green-White, White-Brown, Brown-White, White-Slate, Slate-White, Red-Blue, Blue-Red, Red-Orange, Orange-Red, Red-Green, Green-Red, Red-Slate, Slate-Red, Red-Slate, and Slate-Red. The pairs are listed in a sequence that follows the order of the wires in Figure 1.

Experienced linemen know this table by heart (well... some of them). When they talk about pair 22, they're talking about wires orange and violet. If you want to know a lot more than you really need to know (or you want to mingle with the line men and/or pass as one) than read on.

Pairs of wire are identified sometimes by a number as you have seen earlier. Pair 20 would be yellow and slate. But how do you identify wires by number when there are

Ring 18 ..... Green-Yellow  
 Tip 19 ..... Yellow-Brown  
 Ring 19 ..... Yellow-Yellow  
 Tip 20 ..... Yellow-Slate  
 Ring 20 ..... Slate-Yellow  
 Tip 21 ..... Violet-White  
 Ring 21 ..... White-Violet  
 Tip 22 ..... Violet-Orange  
 Ring 22 ..... Orange-Violet  
 Tip 23 ..... Violet-Green  
 Ring 23 ..... Green-Violet  
 Tip 24 ..... Violet-Brown  
 Ring 24 ..... Brown-Violet  
 Tip 25 ..... Violet-Slate  
 Ring 25 ..... Slate-Violet

over 25 in the cable? Remember binders that wrapped around 25 pairs of wire? They are colored to distinguish between them as well. The first binder is slate, the second is orange, the third is green, etc. Sometimes the binders have two colors. The second binding is in the same order as they do in Figure 2. The first binder would be orange and blue, the second would be orange and violet, the third would be orange and green, etc. If there are 100 pairs of wire in a cable and four binders separating them into sections of 25, what would pair 78 be? It would be the third in the fourth binder - or the green and white wires in the brown and white binder.

Yes, this is a lot to soak up in one reading and only someone dedicated to telephony would know this. I don't know what pair 102 would be without a reference. I personally don't really need to know that. If I wanted to pass off as a lineman, I would go through it, hacking open a cable (please know what you are doing and don't cut into power lines!), to tap or whatever it is you're going to do, and finding a ring pair isn't all too hard with this information.

# FREE KEVIN

## Get The Word Out!

Free Kevin bumper stickers are now ready to be spread around the planet. It's time the world starts hearing about Kevin Nitnick's plight, locked in prison for over three years without a trial and without being accused of a violent or even financial crime. Enough is enough!

What better way to show your support? Make all checks payable to Kevin's grandmother - Beta Vartanian - and send them to us at: 2600 Bumper Stickers P.O. Box 752, Middle Island, NY 11953 USA.

We're selling these stickers at a slightly inflated price of \$1 each, minimum order of 10, and donating 100% of the money to the Nitnick Defense Fund.





# Amateur Radio

by Jarrahah

Recently many of my ninja hacker friends have been asking me for jobs on one of my big amateur radio, or to be more specific, amateur radio. This article will hopefully dispel some of the myths and is all about, from "our" perspective.

Before continuing, I have to say that if you spent more time in front of a keyboard and had an interest in playing with a carbo-tetro, never took a VCR apart, and was just a pussy when it came to getting your bands dirty, this is not for you.



Amateur Radio is the art of using and designing equipment for communicating on frequency bands that we, as licensed operators, have been granted (more or less) licensing. Although many never test their technical ability, amateurs are encouraged to design and build their own antennas, pick up soldering irons and whip up devices to help get themselves on the air, and take electric shocks from random tube equipment that needs servicing. Once you have a station together, be it handheld, floating out of the dashboard of your car, or taking up a corner room in your house, there are several ways to modulate your signals.

As it is today, Amateur Radio operators have developed numerous ways to communicate with each other. The most frequent method used amongst the script kids of radio (people I consider lame because their last few knowledge ends at what is superficial) is VOICE OVER FSK, which basically means local, high quality voice. Most radio geeks start with this mode as well, as I did

myself. After this, different modes of communication grabbed my interest, such as satellite (yes, amateurs have their own satellites), APRS, phone, short-wave, worldwide communication, APR or Amateur

Television, and packet, or wireless, digital communications.

You can get as deep into any of these facets as you want. Entry level packet radio allows for 1200 or 9600bps mobile communications. The input to the interface, known as a TNC, is standard RS232, with the output being either audio tones for 1200bps, or a slightly different modulation scheme that does not take well to the telephone jack. For people who want to spend more time on the digital side of things, TAPR, or Tucson Amateur Packet Radio, is always looking for talented engineers to help on their projects, like a 115kgs space spectrum 900MHz transceiver, using TCP/IP as the underlying protocol. Input to the rig is Ethernet and outputs is an antenna. For me, that concept is cool.

Once you have a station together, be it as shit, I am a big fan of HF SSB, or world-wide voice communication. During times of good solar activity, I have been able to talk to the residents of Yugoslavia with little more RF power than it takes to light up a light bulb. Once again, individuals who are hard core into this facet of the hobby may have talked to one person in every single nation on this planet. Morse Code, which is a requirement for higher class licenses, allows you to communicate with very simple equipment. I have seen some Morse Code only transceivers being built into Atkins geeks start with this mode as well, as I did

not that scroll, but equipment like this was hand built by another amateur. It takes teams of people to design a cell phone. Message boards (think USENET groups) are rippling around the earth right now. ham. These birds are built by amateurs for amateurs, and it takes a great deal of talent and skill to communicate with these systems.

Some of you may be asking "Why, why not just buy like CB radios and then we will be cool?" Well, in Amateur Radio, the opportunity to learn about and build a great deal of electronics presents itself. Unlike CB, or Citizens Band, where you must purchase a pre-approved radio that has only 40 channels, and allows 4 watts out (that is 36dBm, for those with RF in the blood), Amateur Radio operators are encouraged to build their own equipment, and are permitted to radiate a maximum of 1500 watts in pairs of long distance communication.

Note: This much power is rarely needed, except in moonbounce. Yes, it is possible to bounce your signals off the Earth's largest satellite.

I seem to be getting off track from my main point. The reason why most of us installed Linux, then further installed a BSD variant or BeOS, was to learn about a new OS. This is a hobby that discourages you to design and construct innovative means. To build anything permanent, you will need soldering skills. This is not for the weak of heart, or those who think that coding is good since you can't be hurt. You may inflict pain here. This is all in the spirit of learning and innovation. Innovation brings faster methods of communication. Communication is good.

Now, as I mentioned before, you need a license. I realize that half of you reading this are thinking "Give me Big Brother, I don't want you to track my 12 year old brother with a license, yes, cause I'm lost like dat!"

The test required to get the license is multi-

ple choice and the question pools are published. (Note: the materials are available at Radio Shack. The entry level test does not require Morse Code anymore.) You stand to learn more from studying for your amateur radio tests than from a lot of high school physics classes. Don't get a license and you piss people off. Get a license and you learn something and are able to put a good hobby on your resume. Probably the main reason why I have my job right now is because of the road I started upon when I was 14 and received my Tech-Nic Class license.

I realize that I cannot cover all the material that should be discussed, but hopefully this will provide you with a good starting point.

Use up your copy of Mosaic or Lynx for these URLs:

The largest Amateur Radio club, the ARRL, or Amateur Radio Relay League: <http://www.arrl.org>

A good URL for the basics of radio: <http://www.tucsonapr.org>

Tucson Amateur Packet Radio (TAPR): <http://www.tucsonapr.org>

If you are interested in practicing for the test: <http://www.bbockham.mscs.dtcResources/SimNet/millicomm.html>

If you have a question, here are the frequencies that amateurs are allowed to operate on: <http://www.warr.org/field/regulations/ham.html>

Hopefully I am going to help open a door for some of you. This is another opportunity to learn, and when I was a young one cracked the shit on a C64, that was my only goal.

# CABLE MODEM SECURITY

by Feneer

## Feneer@nautic.org

Cable modems are becoming increasingly popular among the Internet. Connected for a variety of reasons, not the least of which is the availability of a cheap, high-speed, high-bandwidth connection on request. I have observed a rather social reaction within the computer enthusiast community here in the Boston area with regard to cable modems. It's a tried cliché - but we now have the economic reality of the "shares" and the "bare bones" respective of cable modem access. Some areas of Boston have it, some do not. The concept of "luck" really doesn't play into it so much as misfortunes, an admittedly pessimistic view of the situation. You either live in an area that has it or you don't.

Along with the surge in popularity cable problems bring, a growing "urban myth" is forming as well. It is widely believed that no cable company installer will install the cable modem if they discover you are running Linux (or some other form of UNIX). This is, in part, true insofar as I have been able to determine through reviewing the advertising material available on the web sites of the various cable companies. Some of them don't allow UNIX. Some don't really say one way or the other, they simply and arbitrarily list Windows and/or Macintosh as a requirement. There are a handful, like Adelphia Cable, which list Linux as an acceptable. The cable modem is switched on first. This needs to happen because the modem itself needs to establish its connection with the domain server in order to perform the functions of the first layer of the ISO model - the physical layer. It performs TR and TX, CRC checks, and monitors collisions in order to request retransmission. That's pretty much it in a nutshell. The more complex job of filtering, reception via destination address, and packet distribution is handled by the OS.

The majority of cable TV companies who offer cable modems Internet access use the MAC verification option as their security

key and identification method. This is a simple process. It is also one of the oldest, and

found its origins in token ring networking, through the cable modem networks are not token ring.

Basically, the cable modem serves as a bridge respective of the MAC address for the ethernet card in the computer and connection to the route routers. The MAC address is recorded by the central office and is used to identify your system. This is used in place of a logon/password process. It saves the cable company time and the user's time of having to help people who forget their password.

Essentially, all ethernet interfaces are hard coded into a database based upon their MAC address as the controlling feature. This is done in the activation phase of the installation - the installer records the MAC address of your NIC and calls it in to the cable company CO. Part and parcel, this database contains the MAC address along with the account and user information identifying that NIC as belonging to you. Amazingly enough, the MAC address is not paired to the cable modem, introducing some interesting possibilities for abuse - which I will briefly explore later.

The actual login process works along these lines. The cable modem is switched on first. This needs to happen because the

modem itself needs to establish its connection with the domain server in order to perform the functions of the first layer of the ISO model - the physical layer. It performs TR and TX, CRC checks, and monitors collisions in order to request retransmission. That's pretty much it in a nutshell. The more complex job of filtering, reception via destination address, and packet distribution is handled by the OS.

Since the modem cable modems Internet connection used by most cable companies is built around bandwidth systems, the data is flowing in restricted ejections over the

connection to the network which triggers the DHCP process request. The request, using the domain server with a DHCP offer. The PC will then record the IP number, along with it and the appropriate subnet mask, etc., and ask the domain server indicating that it is there. Periodically the domain server may or may not send out a change of IP in the form of a DHCP offer. This depends on whether a TTL (time to live) has been set on the original offering. It has been my experience that the majority of cable companies do use TTLs as a method of discouraging the customer from running hijacked IP's.

This is essentially the cable modem login procedure. Once the IP has been assigned, you are ready to use the Internet through the cable modem. When the IP changes, you will not be informed of it. That is to say unless you are using an IP watcher (a plethora of these are available from windows.com), you will not know that your IP has changed. It is possible to use dynamic domain names with cable modems (see <http://www.w3.org/Protocols/> for more information) although this is frowned upon by the provider. All that is left for us is to examine why the cable companies use the MAC address as the security and login control.

Up until recently, the majority of ethernet cards were non-addressable respectively of the MAC address. The NIC essentially performs the functions of the first layer of the ISO model - the physical layer. It performs TR and TX, CRC checks, and monitors collisions in order to request retransmission. That's pretty much it in a nutshell. The more complex job of filtering, reception via destination address, and packet distribution is handled by the OS.

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Since the modem cable modems Internet connection used by most cable companies is built around bandwidth systems, the data is flowing in restricted ejections over the

same wire as the rest of the cable content. A modern cable modem takes two "TV channels" and converts them into a 10Mbps net-work. One channel is used to send packets to the head-end. A standard router is used to the head-end, acting as a bridge between the nodes, and a smart router is used to combine all of the individual nodes into one Local Area Network, but possibly spanning several hundred miles of cable.

When you factor in the ability of the cable company to limit your use of bandwidth by remote SNMP management of your cable modem, you have a system that is hard to continually abuse. Which means you have to be careful how you behave. Setting up an MP3 site and sucking up a major amount of bandwidth may not cost you your connection, but the cable company might crank down the QoS (Quality of service) levels on your modem to prevent you from hogging the bandwidth. The answer to this is simple - don't set up the MP3 site using your MAC address.

The MAC address on older NIC's is a hard-coded address in the ROM. On newer cards, the MAC address can be set using the NIC's configuration software. Upon power-up, the MAC address is recorded by the domain controller at the CO, and compared to the database table. If it is found in the table, it is then sent a DHCP offer (an IP address), which is also stored in the database with a TTL entry. In addition to providing basic security that does not require a login server, this process also records hosts that are not in the MAC database. This is useful for flagging accounts that are violating the terms of service. The important thing to remember is that the process does not record which cable modem the request passed

through at the present time.

Think in terms of misconfiguration. To use more than one computer on the cable modem, you have to either run a 95/NT App like WinCables or you have to configure your Linux/UNIX box as a firewall/router.

If you misconfigure it - an example would be using IP forwarding without querying at the interfaces - the MAC addresses of the other NICs on your network might leak to the CIO domain server. It would record this event and the path to the unregistered NIC's and you would discover you no longer had service. The cable companies are serious about this. They view any share of their LOS as lost profits.

On the other hand, if you intentionally misconfigure it with someone else's MAC, you are there for all intent and purposes. At least as far as the cable company is concerned. Obtaining the MAC addresses of the other subscribers on your cable is trivial. That hard, but serious care must be taken while doing this. It has long been thought that a network administrator cannot tell what a NIC has been thrown into promiscuous mode, in order to sniff traffic. This is simply not true. There are a variety of ways in which to detect that a NIC has been brought up in promiscuous mode. As a matter of fact, this area is so complex that it really deserves its own article, so I am only going to briefly touch upon this now.

You will want to use a commercial sniffing tool to obtain MAC addresses. There are a variety of them out there. The one common denominator among them all, whether they are 95/NT based or UNIX based, is that they throw the NIC into promiscuous mode. Depending upon how much sniffer your cable company has, this might be what gets you into trouble. A large number of cards based upon the DEC (France) ethernet model make a UDP amorphous when they are brought up in promiscuous mode that is different than the normal one. Some in fact do not broadcast their MAC when it

is in promiscuous mode. Others send a specific ARP - which certain switches and routers are able to detect. The Cisco 2501 and 4000 series are two that are known to be able to detect this. Subsequently you would need to approach this with discretion.

The easiest way would be to use a dial-up connection to the internet to sweep (scans) the Class C IP assigned to your node, and then query these using Networker or an NT Scope with ARP/RARP ability. Under UNIX you can interrogate the IP address using a variety of free utilities designed for this purpose, and available from sunsite. Build your list of MAC addresses from outside their network so that there is no trial leading back to you inside their network. Once you have your list, it's a simple matter of reconfiguring your Ethernet card with the MAC address of a legal user who is not currently logged onto the network.

If you pick a MAC address that is currently in use, or the person logs onto the network while you are configured as theirs, that could create a problem. At the very least, it will knock you both off the network, and you will have to fight for the IP address assigned by the domain server. At the worst, the domain server records this impossible event, and you can expect upper administration to demand you fix it, and perhaps investigating is.

There are infinite possibilities for exploitation here. It is possible to have both your own and the real system up using the same MAC:IP providing you don't originate any traffic on for some ports as the other guy. That would of course mean that anything he does will be visible to you and vice versa. That in and of itself is an interesting idea for further study. If I were interested in knowing what you were doing, I might want to develop software to facilitate that type of monitoring. And if I were big brother, well... you might start thinking that using encrypted clients is a good idea from now on.

## how to handle the media

by nes

Five hard way too many hackers gripe about how the media has screwed us over, which is in fact true, to a degree. But it's not all their fault. We as the subject matter have a duty to represent ourselves in a much better light. So if you don't want to make fools of the hacker community, here are some things to remember when chatting with the public and the media.

When you talk to the media you not only speak for yourself but you also speak for every other member of the hacker community. If you say something that is threatening, inflammatory, or just plain dumb, you make the community look stupid as well. Ask to see a copy of the article before it is distributed. This is not always possible for the reporter to do but ask anyway. When and if the article is published and you do read it, give the reporter some feedback.

Set rules for what you are going to talk about and not talk about. Understand what is on the record and what isn't. Be perfectly clear about these rules.

Treat the reporter with respect and kindness, no matter how naive and/or rude they

are. Live by the golden rule when dealing with the media.

Set up a time and place for your interview that is comfortable for both you and the reporter. Your favorite hangout may not be their favorite place. Show up on time. Don't threaten the reporter. It's childish.

Activity that only makes you look lame, remain cool. This does not mean be an ass or be "elie," or using jargon. It means remaining levelheaded and in control of yourself. Consider your words carefully - saying something inflammatory or threatening will make you look lame and make all other hackers look the same way. Take

your time in answering the reporter's questions. The media has a nasty tendency of twisting words; don't let them twist yours. The media is built on a favor system. Understand and use this. If the reporter is good to you, be good to the reporter. If the reporter is an ass, be a saint, but don't let them walk all over you.

The media is not your enemy. The media is a tool and like any tool it can be used for positive or negative results.



## 800-555 Carriers

by MSD

After dialing a total of 20,000 phone numbers in the 800-555 exchange, I have come up with a list of numbers with a carrier (that answer with a computer). This took about 50 hours to complete and is as accurate as possible. If you dial and get garbage, try adjusting the baud rate, parity, etc. Hope you have fun.

1-800-555-

5220	4820	9690	0990	4401	2211	8121	7721	1821	6041	6741	6511	8081
3681	6291	7802	8912	3682	8782	0833	9443	4153	5181	4228	9743	7039
7449	1159	3265	8779	5879								













卷之三

Q. And with your - and then 30,000,000 books, what was the best  
way to keep the price down as much as the last  
bargain?

As the 2011 flood in New York revealed, there were a few problems with the original assessment. The first was subtle, but it was a major problem. The water in the 2011 flood had been flood water, not water from a storm.

Q: What design trends do you see in the market place? What are the big trends in high-end furniture?

1. *Ind. Amer.*  
2. *Art. Amer.* (bold with this will change to bold and  
3. *Ind. Amer.*

卷之三

3. Now, write down on the bridge, inside and the EFL, the  
data you gathered to produce the array.

We have the time if the child will have the retinoblastoma or not. We had the answer, results: bilateral wt 30% (X) and yet another test for bilateral retinoblastoma gene with the FISH analysis. We

but all of them. The thing that we needed to reach them is not in the "tree" metaphor. We only find that under the "tree" metaphor, we are

With respect to the 1976 - and the last is nothing like up to the 1971 - was the DPC. (4) This party is a truncated offshoot

that we are not to be beaten, and we are to make no more noise. That is the beginning. The next stage is beginning our best to catch a fish record, and eat the big fish, that you catch.

What's the difference between a *targeted* gene and a *natural* gene? *Targeted* genes are ones that have been specifically designed to do something, like produce a certain protein or change the way a cell behaves. *Natural* genes are ones that are found in nature and have been around for millions of years, and they usually serve a specific purpose in the body.

selected to fit our culture. It is well known that [H] is not natural, but that the other metals are well known to be natural.

These two would go to Hawaii. I had some of that work (X Y Z) and some would go to the back of each one of those, I think. That

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had a higher association with a high proportion of genes that are known to be involved in the process of cell division and proliferation.

and 261 lbs a 300 lbs steer. The price is not so high as the one at the ranch, but it kills the cattle just as well.

—1—  
The world's first test of a hydrogen bomb in the world, or  
possibly at all, a large one, and a 200kt. one, was made by the  
U.S. on 10th July 1952, and it was a success. The 200kt.  
H-bomb explosion was much more powerful than any atomic  
explosion ever made before. In 1951 the author, in

# Big Business in Cryptography

by Kriminal Joiguna

Governments have long understood the importance of keeping information private, both for military and economic reasons. What better way to do this than with an advanced computing cryptography formula? Past years have been won or lost because the most powerful government on Earth didn't have the same cryptography that a 15 year old crypto-break can have on a PC today. I have extensively read books, studied forums, and learned the general methods of cryptography and am now known as a cryptography break (similar to a photo break), also known as a crypto-break or a crypto. Crypto-breaks are all around the world, and many are programmers, scientists, or advanced mathematicians. Each of these people live to give the public better privacy from the bloodthirsty governments of today. In this article I will attempt to give you a good outline on cryptography and how each and every one of you can use it to your advantage.

## Cryptography For Everyone

Basically, every message or file you encrypt has a digital "signature" added to it. You and you only can apply this digital signature unless someone else has your password. The recipient will be able to do almost positive that the message or file is really from you, that it was sent at exactly the indicated time, and most importantly, that it hasn't been tampered with in the slightest and that others can't decipher it.

This is all based upon mathematical principles, including what we now know as "one-way functions" and "public-key encryption." The mathematical principles are very complicated, to the extent that even I, a crypto-break, do not understand how the crypto-breaks, do not understand how the easiest concepts.

A one-way function is something that is

very easy to do, or "put it this way - some-

thing that is much easier to do than to undo. For example breaking a window is very easy to do, but can you put it back together as easily? I think not. The sorts of one-way functions required for cryptography are that it is easy to make if you have that little extra piece of information and close to impossible if you don't have it. There are many one-way functions in math and one involves prime numbers. Everyone learns prime numbers, and there is no known pattern to them except that they are prime. When you multiply two together you get a number that can be divided exactly by those two primes. Finding the primes of a number is known as "factoring." I think I'll now stop writing now as I am getting carried away with it.

It's easy to multiply two primes, example 11,927 and 20,503 (which gives us 249,710,881) but it's very difficult to recover these two primes from the result. This is a perfect example of a one-way function, which is the most sophisticated encryption system known to us today. It may take weeks for even a supercomputer to factor a large number that was created by two primes. This is exactly the reason why an encryption system was based on factoring two different decoding keys; one to encrypt the message and one to decrypt it. With only one you only have half the computing power as used. To prove this point they had a little "competition." They challenged the world to find the two factors in this 129 digit number, known as crypto-breaks as RSA 129. It was, and is, as follows:

11,381,625,757,888,867,692,55,779,976,146,612,010,218,256,721,242,362,562,561,842,935,065,955,245,735,897,820,597,123,563,958,705,058,989,075,147,599,290,028,879,543,541

They were quite sure that this message they had encrypted using the number as the public key would be quite secure forever. But they hadn't expected computers to get

and multiply them. The encrypting key can then be made public without appreciable risk.

Now here's how it works. I went to send 2600's public key and used it to encrypt this message. No one can read the message other than 2600 because their public key doesn't have any information needed to decipher the article. My computer then sends this newly encryped file and 2600 decryps it with a private key that corresponds to their public one. Now they want to answer and tell me what a great job I did! The computer looks up my public key, they cryps their message with it and send what looks like random numbers and letters as an e-mail. I then take this, pass it into my homemade decrypter and ta-dah!

Now you may be wondering how big these primes have to be to ensure a very elite and secure one-way function. The exact

publickey encryption was invented by a doled known as Whitfield Diffie and Martin Hellman in 1977. Another set of crypto-breaks, who the public called scientists, Ron Rivest, Adi Shamir, and Leonard Adelman, soon came up with the notion of using prime factorization as part of what we now know as RSA encryption, after the initials of their surnames. Today it is estimated that it would take millions of years to factor a 130 digit number that was the product of two primes, regardless how much computing

power was used. To prove this point they had a little "competition." They challenged the world to find the two factors in this 129 digit number, known as crypto-breaks as RSA 129. It was, and is, as follows:

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They were quite sure that this message they had encrypted using the number as the public key would be quite secure forever.

But they hadn't expected computers to get

so powerful, so quickly. And in 1993 a group of more than 600 academics and crypto-

breakers from around the world began an assault on the RSA 129, using the Internet to coordinate each individual's work. In less than a year they factored the number into

two primes, one 64 and one 65 digits long. (This time I'm not wasting my time typing up these two primes.) They then decrypted the message that said, "The magic words are

squeamish and essayage." So as you can see from this, a number 129 digits long isn't enough to encrypt data that is really important and sensitive. Mathematicians today be-

lieve that a number 250 digits long is more than enough to stop the whole population of Earth from uncovering the two primes. But

who really knows? Computers are getting faster by the second so we might end up with an RSA 1,000,000.

One thing we don't have to worry about is running out of primes - there are said to be far more primes than atoms in this universe (yeah, right). Key encryption allows more than just privacy, it can also ensure authentication of many things. This will, hopefully, bring new online benefits in the future (more on this later). Security can also be increased by including time stamps with the encrypted messages or digital IDs.

**Society's Biggest Problem**  
Name of the protection systems that most commercial and government computer systems use today are completely fail-safe. The best they can do is make it as hard as possible to try to get into them. Despite popular

opinions to the contrary, computer security has a fixed record. Well, at least that's what they tell the public. In fact, it is estimated that at least 2600 computers are broken into in a week, in Australia and the U.S. alone.

Computers are capable of protecting information in such a way that even the smartest hackers can't get at it readily unless someone is entrusted with information makes a mistake, but not too many computer systems in

the world use this, or take full advantage of these methods. The main reason computer systems are so easily breached and files so easily decrypted, is that people are stupid when it comes to passwords and setting up systems. People don't want to spend hours on end just to set up a network. They do it the easy way, with the default passwords.

Because most systems will soon use 128-bit encryption techniques such as to order content tickers and buy other products, a breakthrough in mathematics or computer science that breaks the cryptographic system could be a disaster to the people using these systems and to the government in general. The obvious breakthrough would be to create a mathematical formula that gives us an easy way to factor extremely large prime numbers. Any person(s) possessing this power could do anything they wanted, electronically.

#### Every Crypt-Breaker's Nightmare

Most in the U.S. government are opposed to encryption capabilities because it reduces the strength they have over the people of the U.S. Though this, of course, isn't quite how they put it, they say that such encryption "...reduces their ability to gather information." But, thanks to many crypt-thieves, this technology and technology as a whole, can't be stopped. The NSA (National Security Agency) is a part of the U.S. government's defense and intelligence community that protects the U.S.'s secret communications and deciphers foreign communications to gather intelligence data. The NSA doesn't want software containing advanced encryption capabilities to be used outside the United States. This doesn't bother me and many other crypto-breakers at the moment, because we don't live in the U.S., but if the U.S. government manages to do this, many other governments may follow. However, this software is already available throughout the world, and any competitor can copy it. No political policy will be able to restore the U.S. government's tapping cap-

bilities that it had in the past.

The U.S. government recently had a

court case with one Philip Zimmermann. He

is one of the best and most commonly used encryption programs. The case ended in Phil

not being able to release PGP outside of the U.S. But (unofficially of course), Phil sent the scanned source of PGP 5.0 to his friends in Europe. They then scanned this and com-

plied it (though it was called PGP 5.0 international version). They also distributed it like crazy all over the globe, thanks to the Internet. As you can see from this crypto-

raphy will never be stopped, just like hacking. They may catch a crypto-breaker or another Münich but they won't stop us all.

Now, if commerce rests on any single exception, it must be identity. There can be no business without ownership. To regulate commerce there must be a legal system with accountability and that can't happen without precisely identified individuals. What the U.S. government is planning is to make sure everyone has an identity on the Internet, using the encryption methods previously mentioned. The U.S. and British governments both came up with ideas on how to manage all these keys but it seems that key escrow is set to be, for now. Instead, the U.S. government is planning to pass a bill that will ensure that there is a backdoor in each and every cryptographic program (in the U.S.)

so far the NSA, FBI, CIA, and the many other unknown governmental groups will be able to access any bit of any person's encrypted bytes. Does this seem immoral? No, why would it be? According to many of Clinton's advisors, hacking software and enabling the government agencies full access to key escrows are necessary to combat state-sponsored terrorism and prevent play some effects for jessie. This could be especially fun at an airport. The Desktop Cybershoel, also called the "Hospitality Solution," is intended for hotel guests, and this gives rise to two unique features. The first is that they don't require a credit card, they just charge your dime directly to your room. The second is that it has a 3.5" floppy drive. I'm sure you could think of some rather... creative

## THE CYBERBOOTH

by Fever

[a\\_fever@juno.com](mailto:a_fever@juno.com)

Recently I was sitting around in an airport, waiting for a flight, when I noticed something strange. In the middle of the room, there was a large gray cubicle with a sign saying, "Surf the Web! Send/Receive E-mail!" Naturally curious, I sat down. I discovered a bug that some of you may find useful, or at least entertaining. Since then I have done some research on these machines, and this is what I have learned.

A Cyberbooth is basically a Pentium 120 to 166 with an ISDN line. The top of the line model, the Cyberbooth Kiosk, is a two-sided unit featuring two computers and space for two optional pay phones. This is the (DSL) I mentioned earlier. They cost about \$15,000. The Wall Unit and the Low Profile Cyberbooth are basically the same machines, the only difference being in the shape. The wall unit looks like a prop from a bad Star Trek episode, while the Low Profile just looks... old. The newer Payphone Cyberbooth and Desktop Cyberbooth have smaller screens and are sleeker. The Payphone only has a 3.5" monitor. This is one of the few cases outside of Microsoft where a new product is considerably worse than the old ones. This may explain why Acorn won an MS R&D award.

There are some interesting features on these machines, however. These two are the only ones with sound. The Payphone Cyberbooth features next to real pay phones. Download some sounds from the Net, and you have a customarily placed red box. You could also play some effects for jessie. This could be especially fun at an airport. The Desktop Cyberbooth, also called the "Hospitality Solution," is intended for hotel guests, and this gives rise to two unique features. The first is that they don't require a credit card, they just charge your dime directly to your room. The second is that it has a 3.5" floppy drive. I'm sure you could think of some rather... creative

uses for that, but keep in mind that they know what room you're in, and what machine you have access to. If you're going to play with it, use an assumed name and pay cash.

The Cyberbooth offers several main features. You can access the web, e-mail, collect-player games (just in case you can't wait to get home to play *Alien Shooter*), or access online services like Compuserve and America Online. (Don't use America Online. You'll be much happier in the long run.) Unfortunately, all of these features require you to swipe your credit card!

Acorn, gives you some options free, in the hope that you will give them your credit card data. You can look at the Acorn web site and send e-mail to their webmaster telling him about this article. You can also visit some other pages free. These will usually be on the right of the screen, but you may sometimes find free options on the top too.

At this point, you might be thinking that you can just go to the Acorn site and then go to the right of the screen, but you may sometimes find free options on the top too.

At this point, you might be thinking that you are not allowed to access that page without paying, and you will remain on the free page.

"Oh no!" you cry, "I can't pay for this! How can I get on the web?" There is a huge hole in security that would allow any AOL-User to get on the web, assuming he could figure out how to use the web. Look at the top of the Cyberbooth screen. Click on the "Cyberbooth Marketplace" button. This will give you several graphics linked to advertisements' web pages. Click on one that looks interesting. This will take you to an anonymous user's page. From there, try to find a link to. For some reason, when you go through the Marketplace, it lets you out (I have not found any other ways to get free access from a Cyber-







est directly to the firewall. This is a good indicator that a box is a firewall if you know it exists. There are two ways to do this. Drop and Reject. Drop will just drop the packet and you will have to wait for your client to timeout. Whereas a reject may send a rejected packet back, depending on the protocol.

So you think to yourself all I have to do is just set up a service and execute an Overlapping Fragment attack. Two people who design firewalls are smart. I'll do it with this reasoning and implementation from FW-1.

Rejects are often vulnerable to the Overlapping Fragment attack. In normal operation, the router passes the first fragment of a packet because it is allowed by the ACL (access control

list). The router then passes the second fragment, as it naturally passes all second fragments. However, in an Overlapping Fragments attack, an abusive fragment overwrites the end of the first fragment, resulting in the acceptance of a packet that should have been rejected by the ACL.

Firewall 1 prevents such attacks through a process we call "partial fragmentation." In this case, the firewall only passes a fragment after it has internally reconstructed the full original packet. The FW-1 inspection engine only sees the full packet data - the same data that would be seen if the packet wasn't fragmented. Using this scheme, no overlapping of fragments is permitted by the FW-1.

Firewall 1 prevents such attacks through a process we call "partial fragmentation." In this case, the firewall only passes a fragment after it has internally reconstructed the full original packet. The FW-1 inspection engine only sees the full packet data - the same data that would be seen if the packet wasn't fragmented. Using this scheme, no overlapping of fragments is permitted by the FW-1.

## HOW TO BROWSE FROM NETSCAPE

by J.P.

[jpmalone@hotmail.com](mailto:jpmalone@hotmail.com)

Do you ever access sites that you don't want anyone to know about? In this article I will help you keep your privacy while you are looking at pages that might be of concern.

One day I was on the computer when I realized that I was on a questionable page (which is a nice term for a hacking page or something of the sort), and that in order to clear my tracks I would have to delete my history URLs on netscape, then clear the temporary internet files, and that would do a good job of preventing people from seeing where I had been. To do this, it would have taken me like 10 minutes, which is too long when your parents or boss or whoever want to see where you've been. So what I did was made a simple batch file to do all the dirty work.

Netscape stores its history file as "Netscape.DLL" and can be used to get free phone calls with a beeper box. Don't believe me? Try it. Just hook up directly to the screen.

Now go ahead, hook up whatever boxes you may have and go at it. A great example is the "Beep" box, as you can listen in on other people's conversations and gain great knowledge for social engineering or learn great secrets about people. Another favorite trick of mine is to get an FM transmitter kit and hook it up with alligator clips to a laptop or box. Then, come up the book and walk down the street to the battery of your car and tune in your radio to the frequency isolated farm roads. They are pale green and come in assorted sizes, usually about three feet tall. They will usually say either "Jiffy's Bell" or "American" or something like that on them, and almost always have one of those "Cell Julie" boxes, the green ones described above, and the huge blue four silver ones.

Only delete those lines, or else you have screwed up your preferences for Netscape, and it is a pain to fix. Then after both files are clear, you can hide any suspicions by going to sites like [www.4gs.com](http://www.4gs.com) so no one will find you up to anything.

Now that these two files are modified to your liking, make a copy of each one (netscape2.hst and netscape2.hst), and then you are ready to program your batch file. First of all you want to replace "netscape2.hst" and "netscape2.hst" with "del netscape2.hst" and "del netscape2.hst".

Near you are ready to program your old copies of your files with the cleaned up ones.



## PRIVATE BROWSING IN THE INTERNET

### By J.P.

My death of the Bullz On Parade

I have read countless articles on phreaking and have found that many are interested and/or apply to specific areas of the country like the east and west coasts and the north and southwest. However, I have failed to find much information on phreaking in the midwest, where there are definitely tons of phreakers or wannabes. So here is a tutorial on phreaking in that area, specifically Illinois. All the techniques described here will also apply to most parts of Wisconsin, Iowa, Ohio, Wisconsin, and Indiana, and I assume Michigan as well, although I'm not sure.

Unlike the boxes in the east, which are opened with 7/16" allen wrenches, Illinois simply uses a 7/16" bolt to close its boxes. These boxes are found everywhere, especially in areas with unpopulated areas like snow sheds, sections of isolated farm roads. They are pale green and come in assorted sizes, usually about three feet tall. They will usually say either "Jiffy's Bell" or "American" or something like that on them, and almost always have one of those "Cell Julie" boxes, the green ones described above, and the huge blue four silver ones.

Before You Dig: signs. There are two types of boxes and boxes described above, and the boxes, the green ones described above, and the huge blue four silver ones.

Once you have the damn thing open, you can see all the phone lines of the area hook up to specific areas of screens, many of which are just unused lines that show up on caller ID as "Illinois Bell Telephone" and can be used to get free phone calls with a beeper box. Don't believe me? Try it. Just hook up directly to the screen.

Now go ahead, hook up whatever boxes you may have and go at it. A great example is the "Beep" box, as you can listen in on other people's conversations and gain great knowledge for social engineering or learn great secrets about people. Another favorite trick of mine is to get an FM transmitter kit and hook it up with alligator clips to a laptop or box. Then, come up the book and walk down the street to the battery of your car and tune in your radio to the frequency of the transmission. These transmitters can be acquired from electronics companies like Martin P. Jones and Associates through mail order. Call 304-652-6733 for a catalog.

Don't forget to watch out for cops and other stuff. If you see a cop, just run away. If you see a cop and walk down the street to the battery of your car and tune in your radio to the frequency of the transmission. These transmitters can be acquired from electronics companies like Martin P. Jones and Associates through mail order. Call 304-652-6733 for a catalog.

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